

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION
FACT SHEET**

(Pursuant to NAC 445A.148)

Permittee Name: Nevada Department of Corrections
P O Box 7011
Carson City NV 89702

Permit No. NEV00025 - MODIFICATION

Facility: Southern Desert Correctional Center
U.S. 95 8 miles SE of Indian Springs
Latitude: 36° 31' 05" N
Longitude: 115° 32' 26"
Township 16S - Range 57E - Section 33

General: Wastewater treatment facilities serving the prison complex at Southern Desert Correctional Center consist of headworks, 4 treatment ponds, and 5 rapid infiltration basins (RIBs). Failure of the infiltration function due to impermeable soils (caliche) brought about the need to construct 7 additional RIBs. In the interim, effluent pumped from the RIBs has been disposed via overland flow under temporary permits TNEV2002376, TNEV2003320, TNEV2003413, and TNEV2004307. The subject of this permit modification is to accommodate the overland flow for the remainder of the construction period and to specify the planned number of RIBs. The plans for the additional RIBs were approved by the Division on 01/04/04, and the six month construction project is expected to run from 04/01/04 to 10/01/04. The 7 additional RIBs will be excavated below the caliche layer and sized at 2.59 ac each with an operating depth of approximately 3 ft. The original permit expiration date of 11/20/06 will not be changed. Please see the original fact sheet dated 11/20/01 for additional information.

Receiving Water Characteristics: Groundwater is at a depth of 200 ft and flows north towards U.S. Hwy 95. Four wells located one half mile upgradient of the treatment ponds supply drinking water for the prison.

Rational for Permit Requirements: The permit requirements added by this modification address the disposal of effluent via overland flow and are as follows.

Part I.A.1.b of DRAFT permit NEV00025:

During the period beginning on the modification date of this permit, and lasting until the (7) new rapid infiltration basins are constructed and ready for use, the permittee is authorized to discharge secondary - treated effluent from the rapid infiltration basins to land application via overland flow at an adjacent site. Samples shall be taken at the point of discharge from the rapid infiltration basins prior to land application. The discharge shall be limited and monitored by the Permittee as specified below.

Table I.A.1.b

Parameter	Discharge Limitations	Monitoring Requirements	
		Measurement Frequency	Sample Type
Discharge Flow, MGD	0.5	continuous	pump timer
Fecal Coliform, MPN/100 ml	monitor & report	every two weeks	discrete
CBOD, mg/l	monitor & report	every two weeks	discrete
TSS, mg/l	monitor & report	every two weeks	discrete
Total Nitrogen as N, mg/l	monitor & report	every two weeks	discrete
Nitrate as N, mg/l	monitor & report	every two weeks	discrete
Visual Monitoring (during periods of discharge)	monitor & report	twice a day	visual determination

- i. The land application facilities shall be constructed and operated in accordance with plans approved by the Division. The plans must be approved by the Division prior to the start of construction. The Division must approve all changes to the approved plans.
- ii. The land application site shall be on property controlled and restricted by the Department of Corrections. Public access shall be prohibited.
- iii. The application rate shall be in accordance with plans submitted to the Division.
- iv. Effluent application shall be conducted in a manner that prevents erosion and keeps standing water to a minimum.
- v. Tailwater shall be controlled and contained at all times. A suitable berm shall be constructed along the down gradient perimeter. Run off of effluent from the land application site is prohibited.
- vi. The Permittee shall inform all staff working on this project about the potential hazards of working with effluent, and the recommended hygiene procedures.

Procedures for Public Comment: The Notice of the Division's intent to modify permit NEV00025 to include effluent disposal via overland flow, until additional RIBs are constructed, is being sent to the **Las Vegas Review Journal** for publication. The notice is being mailed to interested persons on our mailing list. The notice, this fact sheet, and draft permit are also posted on the Division's web site, at <http://ndep.nv.gov/admin/public.htm>. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can

be extended at the discretion of the Administrator. The deadline by which all written comments are to be postmarked or hand delivered to the Division is Monday May 31, 2004 by 5:00 pm.

A public hearing on the proposed determination can be requested by the applicant, any affected state or interstate agency, the Regional Administrator, or any interested agency, person, or group of persons. The request must be filed within the comment period and indicate the interest of the person filing the request and the reasons why a hearing is warranted. Public hearings granted by the Division are conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination

The Division has made the tentative determination to modify the existing permit for the remainder of the five year term ending 11/20/06.

Prepared by: Robert J. Saunders
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 Bureau of Water Pollution Control
 May 23, 2004